

CLAIMS:

- 1 1. A vehicle arresting unit, comprising:
2 a block of compressible material having top, bottom and side surfaces and
3 a top to bottom thickness;
4 frangible material, with greater resistance to jet blast phenomena than said
5 compressible material, positioned above said top surface; and
6 intermediate material positioned between said frangible material and said
7 top surface to mitigate transmission of jet blast phenomena incident upon said frangible
8 material.
- 1 2. A vehicle arresting unit as in claim 1, wherein said intermediate material
2 comprises a sheet of foam material.
- 1 3. A vehicle arresting unit as in claim 1, wherein said frangible material
2 comprises a portion of a sheet of frangible material.
- 1 4. A vehicle arresting unit as in claim 1, wherein said frangible material and
2 said intermediate material each have a thickness not exceeding one-half inch.
- 1 5. A vehicle arresting unit as in claim 1, additionally comprising:
2 a fastening configuration arranged to retain said frangible material and said
3 intermediate material in position above said top surface.

1 6. A vehicle arresting unit as in claim 1, additionally comprising:
2 a bottom layer, of material of strength greater than said compressible
3 material positioned below said bottom surface.

1 7. A vehicle arresting unit as in claim 1, wherein said block of compressible
2 material is a block of cellular concrete.

1 8. A vehicle arresting bed, comprising:
2 a plurality of vehicle arresting units, each in accordance with claim 1,
3 arranged in columns and rows.

1 9. A method of forming a vehicle arresting bed, comprising:
2 (a) providing a plurality of vehicle arresting units, each in accordance
3 with claim 1; and
4 (b) positioning said units to cover an area of width and length suitable
5 to arrest travel of a vehicle entering the bed.

6 10. A vehicle arresting unit, comprising:
7 a block of compressible material having top, bottom and side surfaces and
8 a top to bottom thickness;
9 frangible material, with greater resistance to jet blast phenomena than said
10 compressible material, positioned above said top surface; and
11 a fastening configuration arranged to retain said frangible material in
12 position above said top surface.

1 11. A vehicle arresting unit as in claim 10, wherein said frangible material
2 comprises a portion of a sheet of frangible material having a hardness greater than said
3 compressible material.

1 12. A vehicle arresting unit as in claim 10, wherein said fastening
2 configuration comprises a section of polyester net.

1 13. A vehicle arresting unit as in claim 10, wherein said block of compressible
2 material is a block of cellular concrete.

1 14. A vehicle arresting bed, comprising:
2 a plurality of vehicle arresting units, each in accordance with claim 10,
3 arranged in columns and rows.

1 15. A method of forming a vehicle arresting bed, comprising:
2 (a) providing a plurality of vehicle arresting units, each in accordance
3 with claim 10; and
4 (b) positioning said units to cover an area of width and length suitable
5 to arrest travel of a vehicle entering the bed.

1 16. A method of fabricating a vehicle arresting unit, comprising the steps of:
2 (a) providing a block of compressible material having top, bottom and
3 side surfaces;

- 4 (b) positioning frangible material above said top surface; and
5 (c) securing said frangible material to said block.

1 17. A method as in claim 16, wherein step (b) comprises positioning frangible
2 material comprising a portion of a sheet of frangible material having a strength greater
3 than said compressible material.

1 18. A method as in claim 16, additionally comprising the following step
2 between steps (a) and (b):

3 (x) positioning intermediate material having a force transmission
4 mitigation characteristic between said top surface and said frangible material.

1 19. A method as in claim 18, wherein step (x) comprises positioning a sheet of
2 foam material.

1 20. A method as in claim 16, wherein step (a) comprises providing a block of
2 cellular concrete.

1 21. A method as in claim 16, wherein step (b) comprises positioning a section
2 of cement board of thickness not exceeding five-eighths of an inch.

1 22. A method as in claim 16, wherein step (c) comprises providing a fastening
2 configuration arranged to retain said frangible material in position above said top surface.

1 23. A method as in claim 16, wherein step (c) comprises at least partially
2 enclosing said block and frangible material in a section of polyester net.

1 24. A method as in claim 16, including an additional step between steps (b)
2 and (c), as follows:

3 (y) positioning a bottom layer of material, of strength greater than the
4 compressible material, below the block.

1 25. A method as in claim 16, additionally comprising the following step:

2 (d) applying sealant material, having a water resistant characteristic, to
3 a surface area of said unit.

1 26. A method of forming a vehicle arresting bed comprising:

2 (a) forming a plurality of vehicle arresting units, each in accordance
3 with claim 16; and

4 (b) positioning said units to cover an area of width and length suitable
5 to arrest travel of a vehicle entering the bed.

6 27. A method of fabricating a vehicle arresting unit, comprising the steps of:

7 (a) providing a block of compressible material having top, bottom and
8 side surfaces;

9 (b) positioning frangible material above said top surface;

10 (c) positioning intermediate material having a force transmission
11 mitigation characteristic between said top surface and said frangible material; and

12 (d) providing a fastening configuration arranged to retain said
13 frangible material and intermediate material in position above said top surface.

14 28. A method as in claim 27, wherein step (a) comprises providing a block of
15 cellular concrete.

1 29. A method as in claim 27, wherein step (b) comprises positioning frangible
2 material comprising a portion of a sheet of frangible material having a strength greater
3 than said compressible material.

1 30. A method as in claim 27, wherein step (c) comprises positioning a sheet of
2 foam material.

1 31. A method as in claim 27, wherein step (b) comprises positioning a section
2 of cement board of thickness not exceeding five-eighths of an inch.

1 32. A method as in claim 27, wherein step (d) comprises at least partially
2 enclosing said elements as specified, in a section of polyester net.

1 33. A method as in claim 27, including an additional step between steps (c)
2 and (d), as follows:

3 (y) positioning a bottom layer of material, of strength greater than the
4 compressible material, below the block.

- 1 34. A method of forming a vehicle arresting bed comprising:
- 2 (a) forming a plurality of vehicle arresting units, each in accordance
- 3 with claim 27; and
- 4 (b) positioning said units to cover an area of width and length suitable
- 5 to arrest travel of a vehicle entering the bed.